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The Wisconsin Department of Public Instruction

# MDAT Step-by-Step

## A Guide Through the Application





# A Guide Through MDAT

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- The next slides will guide you through the process of exploring data with MDAT.
- Follow along--we'll be looking at district level data. We recommend you do the same.



# BEFORE YOU BEGIN...

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- All users of Access Manager and MDAT will need a WAMS ID
  - To log in to MDAT
  - To log in to Access Manager
  - To gain access to MDAT via Access Manager
- WAMS=Web Access Management System
  - Once created, your WAMS ID may be used to log in to a variety of DPI and State of Wisconsin applications.



# WAMS: More Information

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- Need to sign up for a WAMS ID?
- Have a WAMS account, but don't remember your ID and/or password?
- Visit the [LDS Home Page](#), or the [WAMS Home Page](#), for more information about WAMS.
- If you have questions about WAMS, email [LDShelp@dpi.wi.gov](mailto:LDShelp@dpi.wi.gov).

# What type of MDAT user are you?

Type of MDAT User	Novice	Power
User Characteristics	<ul style="list-style-type: none"><li>➤ Classroom Level Educators</li><li>➤ Less experienced with independent data analysis</li><li>➤ Haven't spent much time looking at state or local data</li></ul>	<ul style="list-style-type: none"><li>➤ Administrators or teacher leaders</li><li>➤ Able to spend time looking at multiple types of data in multiple ways</li><li>➤ Accustomed to navigating datasets</li></ul>
Recommended approach to MDAT	<ul style="list-style-type: none"><li>✓ FIRST--View "MDAT Overview" Presentation</li><li>✓ Complete this presentation</li></ul>	<ul style="list-style-type: none"><li>✓ View "MDAT Overview" Presentation</li><li>✓ Explore MDAT</li></ul>

# MDAT: First Steps

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- Steps:
  - Develop research question(s)
  - Log in to MDAT
    - <https://wlds.dpi.wi.gov/secure/>
      - Or, visit the [LDS Home Page](#) and select “secure login”
    - External users log in with their WAMS ID and password\*  
*\*Don't know what these are? Select the "[Forgot User Name/Password](#)" link or email [LDShelp@dpi.wi.gov](mailto:LDShelp@dpi.wi.gov).*
  - Select MDAT from the secure home landing page



# MDAT Privacy Agreement

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- Upon logging in for the first time, and every 120 days thereafter, users will need to agree to the terms of use
  - Involves viewing and agreeing to terms set out in a brief data privacy presentation



# MDAT Guide: First Steps

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- Logged in? Now...
  1. Select district/school
    - State Summary Data is also available.
      - Choose State Summary Data from District Options
  2. Select year
    - MDAT uses three years of data, comparing a cohort from one school year to the next
      - Select 2007-08 to see change from 06/07 to 07/08
      - Select 2008-09 to see change from 07/08 to 08/09
  3. Select appropriate variables and filters to answer question
- See next slide for MDAT “front” page



# First Screen to Select Variables and Filters

The screenshot displays the 'Multi-Dimensional Analytic Tool' (MDAT) interface. The header includes the Wisconsin Department of Public Instruction logo and the title 'Multi-Dimensional Analytic Tool' with a version number 'MDAT1 v1.0'. Below the header, there are 'Start Over' and 'Next >>' buttons. The main content area is divided into several sections: 'Data Topic' (One-year Change in WKCE Scale Scores (Gr 4-8 only)), 'Year of Data' (2007-08 and 2008-09), 'District' (dropdown menu), 'School' (dropdown menu), 'Variables' (choose one variable from Var1 and one from Var2 (optional)), 'Filters' (Subjects or Content Standards, Demographics), and 'Quick Links' (About the Data, Using MDAT, Glossary, FAQ, Other Resources, LDS Home). The 'Variables' section lists various categories like 'Subjects or Content Standards' (Reading / Math) and 'Demographics' (Disability Status (WSAS), Economic Status (WSAS), etc.). The 'Filters' section lists 'Subjects or Content Standards' (ACADEMIC SUBJECTS, Reading, Mathematics) and 'Demographics' (ECONOMIC STATUS (WSAS), ENGLISH LANGUAGE PROFICIENCY (WSAS), etc.).

Multi-Dimensional Analytic Tool  
-- Report Options --  
MDAT1 v1.0

Welcome  
Access: MDAT Tier 1  
[Secure Home](#)  
[Logout](#)

Quick Links  
[About the Data](#)  
[Using MDAT](#)  
[Glossary](#)  
[FAQ](#)  
Other Resources  
[LDS Home](#)

Data Topic:  
One-year Change in WKCE Scale Scores (Gr 4-8 only)

Year of Data:  
2007-08 2008-09

District:  
School: DISTRICT-WIDE SUMMARY

Variables  
choose one variable from Var1 and one from Var2 (optional)

Subjects or Content Standards  
Reading / Math

Demographics  
Disability Status (WSAS)  
Economic Status (WSAS)  
ELP Code (WSAS)  
English Proficiency Status (WSAS)  
ESEA Group (WSAS)  
Gender (WSAS)  
Grade Level (WSAS)  
Native Language Group (CD)

Filters  
Subjects or Content Standards  
ACADEMIC SUBJECTS  
Reading  
Mathematics

Demographics  
ECONOMIC STATUS (WSAS)  
Economically Disadvantaged  
Not Economically Disadvantaged or No Data  
ENGLISH LANGUAGE PROFICIENCY (WSAS)  
ELL/LEP (ELP Code 1-5)  
ELP Code 1  
ELP Code 2  
ELP Code 3

After you select your district and school, your tier level will appear here.

2. Select the school year. MDAT will report test scores from the selected year and the prior school year.

1. Select your district and school



# FYI: Left Margin Informational Panel

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Identifies user and assigned roles	Links to the DPI website.
Secure Home	Returns you to the LDS secure landing page
About the Data	Additional background on MDAT
Using MDAT	Process overview and guiding questions
Glossary	Terms to assist in more effective use of the tool
FAQ	Answers to frequently asked questions



# MDAT Guide: Select a Question

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- Consider a research question you would like to answer involving WKCE scale scores.
  - Our Question One: Looking at sixth grade students in the district, how does math performance differ between students with and without disabilities?



# MDAT Guide: Selecting Variables and Filters

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- Again, our question: Looking at sixth grade students in the district, how does math performance differ between students with and without disabilities?
- Remember, variables and filters allow you to define and refine your results for a specific population.
- Consider
  - What do we need to know?
  - Do these points involve limiting the options (e.g. one grade only), or showing all options (e.g. seeing results for all grades)?
- Use the table on the next page to help decide on variables or filters

# MDAT Guide: Selecting Variables and Filters

About what do you want to know?	Is it general? <i>VARIABLE</i>	Is it specific? <i>FILTER</i>
Subject: Mathematics	No	Yes
Students with AND without disabilities	Yes	No
Grade Six	No	Yes



# MDAT Guide: Selecting Variables and Filters

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- Based on our table, we need to select the following variables and filters:
  - Variable=Disability Status
  - Filter=Math (Subject)
  - Filter=Sixth grade (Grade)
- See the next page for the image of the options screen and our selected variables and filters

# MDAT Guide: Screen for variable and filter selection

**Variables**  
choose one variable from Var1 and one from Var2 (optional)

	Var1	Var2
<b>Subjects or Content Standards</b>		
Reading / Math	<input type="radio"/>	<input type="radio"/>
<b>Demographics</b>		
Disability Status (WSAS)	<input checked="" type="radio"/>	<input type="radio"/>
Economic Status (WSAS)	<input type="radio"/>	<input type="radio"/>
ELP Code (WSAS)	<input type="radio"/>	<input type="radio"/>
English Proficiency Status (WSAS)	<input type="radio"/>	<input type="radio"/>
ESEA Group (WSAS)	<input type="radio"/>	<input type="radio"/>
Gender (WSAS)	<input type="radio"/>	<input type="radio"/>
Grade Level (WSAS)	<input type="radio"/>	<input type="radio"/>
Native Language Group (CD)	<input type="radio"/>	<input type="radio"/>
Primary Disability (WSAS or CD)	<input type="radio"/>	<input type="radio"/>
Race/Ethnicity (WSAS)	<input type="radio"/>	<input type="radio"/>
First Full School Year ELP 6 (CD)	<input type="radio"/>	<input type="radio"/>
<b>Demographics (Mobility)</b>		
FAY Status This District (WSAS)	<input type="radio"/>	<input type="radio"/>
FAY Status This School (WSAS)	<input type="radio"/>	<input type="radio"/>
WI Schools Attended Prior School Year (YE)	<input type="radio"/>	<input type="radio"/>
Years Enrolled This/Single Dist (CD)	<input type="radio"/>	<input type="radio"/>
Years Enrolled This/Single Sch (CD)	<input type="radio"/>	<input type="radio"/>
<b>Student Behavior</b>		
At Level WI Prior School Year (YE)	<input type="radio"/>	<input type="radio"/>
Days Removed IS IAES Prior School Year	<input type="radio"/>	<input type="radio"/>
Days Removed OS EX Prior School Year	<input type="radio"/>	<input type="radio"/>
<b>More Variables</b>		
Accommodation Any Subject (WSAS)	<input type="radio"/>	<input type="radio"/>
Accommodation This Subject (WSAS)	<input type="radio"/>	<input type="radio"/>
School Charter Status	<input type="radio"/>	<input type="radio"/>

**Filters**

**Subjects or Content Standards**

ACADEMIC SUBJECTS

☐ Reading

☒ Mathematics

**Demographics**

**ECONOMIC STATUS (WSAS)**

☐ Economically Disadvantaged

☐ Not Economically Disadvantaged or No Data

**ENGLISH LANGUAGE PROFICIENCY (WSAS)**

ELL/LEP (ELP Code 1-5)

☐ ELP Code 1

☐ ELP Code 2

☐ ELP Code 3

☐ ELP Code 4

☐ ELP Code 5

☐ English Proficient (ELP Code 6-7)

☐ ELP Code 6 (formerly ELL, now English proficient)

☐ ELP Code 7 (English proficient, never ELL)

**GENDER (WSAS)**

☐ Female

☐ Male

☐ Gender N/A

**GRADE LEVEL (WSAS)**

☐ Grade 3

☐ Grade 4

☐ Grade 5

☒ Grade 6

☐ Grade 7

☐ Grade 8

☐ Grade 10

**PRIMARY DISABILITY (WSAS or CD)**

☐ Autism

☐ Cognitive Disability

☐ Deaf-Blind

☐ Emotional Behavioral Disability

☐ Hearing Impairment

☐ Orthopedic Impairment

☐ Other Health Impairment

☐ Significant Developmental Delay

☐ Specific Learning Disability

☐ Speech or Language Impairment

☐ Traumatic Brain Injury

☐ Visual Impairment

☐ Students with Disabilities

☐ Students without Disabilities

1. Select appropriate variables  
–Disability Status

2. Select your filters  
-Mathematics  
-Grade 6

3. After selecting your variables and filters, click **"NEXT"** at top or bottom of screen.

# MDAT Guide: Verify Your Selections

Verify report options and select Change Report Options or Submit.

<< Change Report Options Submit

District [REDACTED]  
School [REDACTED]  
Data Topic One-year Change in WKCE Scale Scores  
Year of Data 2007-08

**DISTRICT SUMMARY**

**Variables**

Variable1 Disability Status (WSAS)  
Variable2 - None -

**Filters**

Academic Subject Mathematics  
Economic Status (WSAS) - None -  
English Language Proficiency (WSAS) - None -  
Gender (WSAS) - None -  
Grade Level (WSAS) Grade 6  
Primary Disability (WSAS or CD) - None -  
Race/Ethnicity (WSAS) - None -  
FAY Status (WSAS) - None -  
Years Enrolled (CD) - None -  
Charter Status - None -

<< Change Report Options Submit

Click "submit"  
for MDAT to  
process your  
query.

This screen verifies your choices for variables and filters before running the query for your customized report.



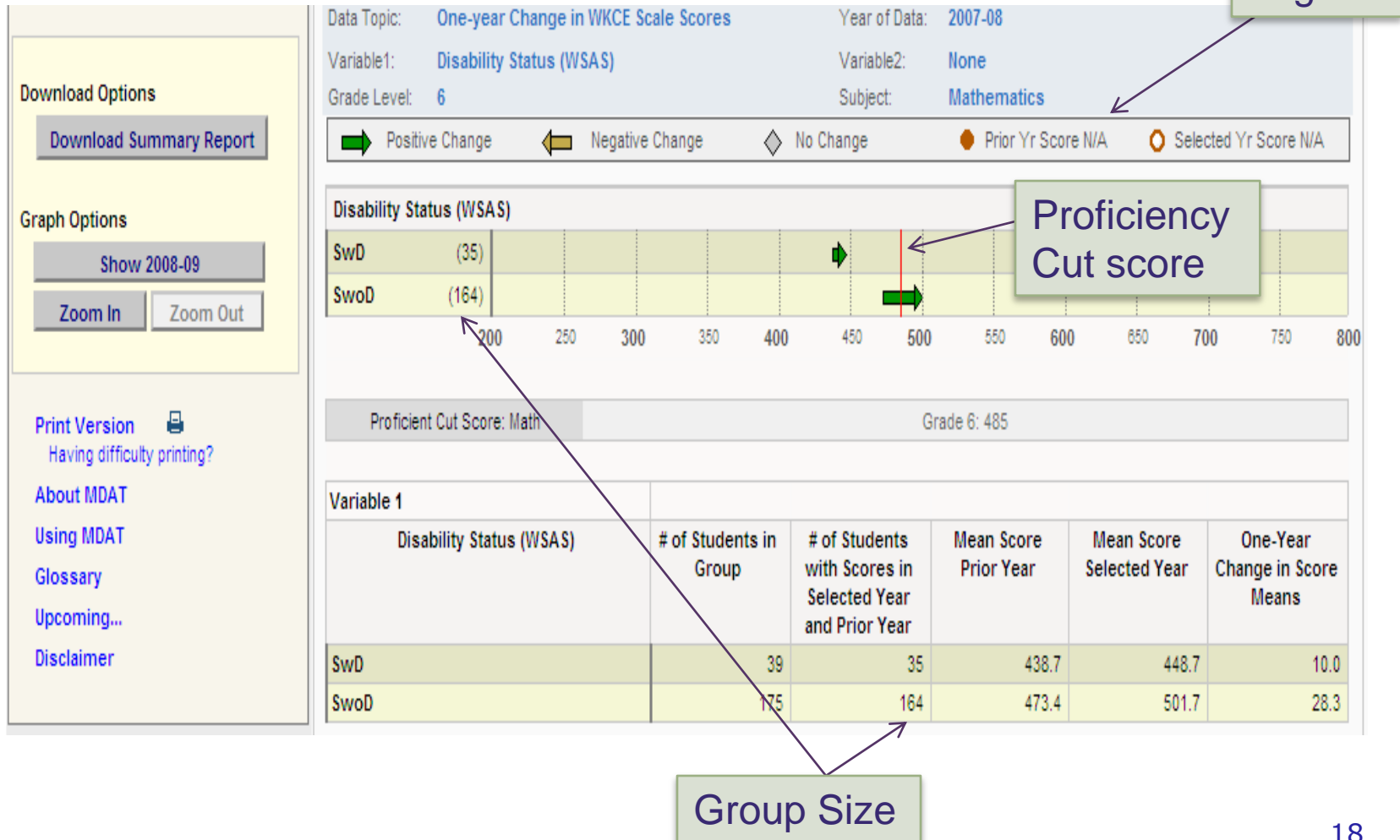
# MDAT Guide: Understanding Your Report

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- After submitting your query, you will see a report page that includes a graph and a table.
- Report Points of Interest:
  - Arrows indicate direction of change
    - Green arrows, point right=positive change
    - Yellow arrows, point left=negative change
    - White diamond=no change
  - Vertical red line indicates proficiency cut score
- See the next page for our query results.

# MDAT Guide: Report Screen

## Points of Interest





# MDAT Guide: Interpreting Your Report

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- What you can say for certain about the information presented in the table and graph?
  - From 2006-07 to 2007-08 the change for both groups was positive.
  - The one-year change in average scores for the 164 students without disabilities was 28.3.
  - The change in average scores for the group of students in the district with disabilities was 10.
- Always make note of the group size when looking at your data
  - Caution: group size, students without disabilities is <40.
- Consider if there are other factors that may influence the results you see
  - You can now change your report options to include more information, or refine your group further



# MDAT Guide: Further Analysis of Our Question

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- Let's refine the cohort of students
- Our refined question:
  - Still looking at sixth grade students and math scores, how does the performance of students with disabilities identified as EBD compare to students without disabilities?
- Let's revisit our Variable/Filter Chart

# MDAT Guide: Refining our Variables and Filters

About what do you want to know?	Is it general? <i>VARIABLE</i>	Is it specific? <i>FILTER</i>
Subject: Mathematics	No	Yes
Students with and without disabilities	Yes	No
Grade Six	No	Yes
Students <u>without</u> disabilities	No	Yes
Students identified EBD	No	Yes



# MDAT Guide: Refining Your Results

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- There's no need to start over here.
- Select "Change Report Options" from the top of the page
- You will return to the report options page, with your previous selections (including the district/school) still entered.

# MDAT Guide: Refining Your Results (Screen Shot)

The screenshot shows the MDAT filter interface. On the left, a green box contains the text: "We need to add filters to our selection -EBD -Students without disabilities". Two arrows point from this box to the filter options on the right. The first arrow points to the "Emotional Behavioral Disability" checkbox, which is checked. The second arrow points to the "Students without Disabilities (Not IDEA Eligible or No Disability)" checkbox, which is also checked. The interface includes sections for "Accommodation Any Subject (WSAS)", "Accommodation This Subject (WSAS)", "School Charter Status", "Grade" (5, 6, 7, 8, 10), "PRIMARY DISABILITY (WSAS or CD)", "RACE/ETHNICITY (WSAS)", and "Students with Disabilities".

Accommodation Any Subject (WSAS) ☐ ☐

Accommodation This Subject (WSAS) ☐ ☐

School Charter Status ☐ ☐

**We need to add filters to our selection**  
**-EBD**  
**-Students without disabilities**

☐ Grade 5

☒ Grade 6

☐ Grade 7

☐ Grade 8

☐ Grade 10

**clear** PRIMARY DISABILITY (WSAS or CD)

☐ Autism

☐ Cognitive Disability

☐ Deaf-Blind

☒ Emotional Behavioral Disability

☐ Hearing Impairment

☐ Orthopedic Impairment

☐ Other Health Impairment

☐ Significant Developmental Delay

☐ Specific Learning Disability

☐ Speech or Language Impairment

☐ Traumatic Brain Injury

☐ Visual Impairment

☐ Students with Disabilities

☒ Students without Disabilities (Not IDEA Eligible or No Disability)

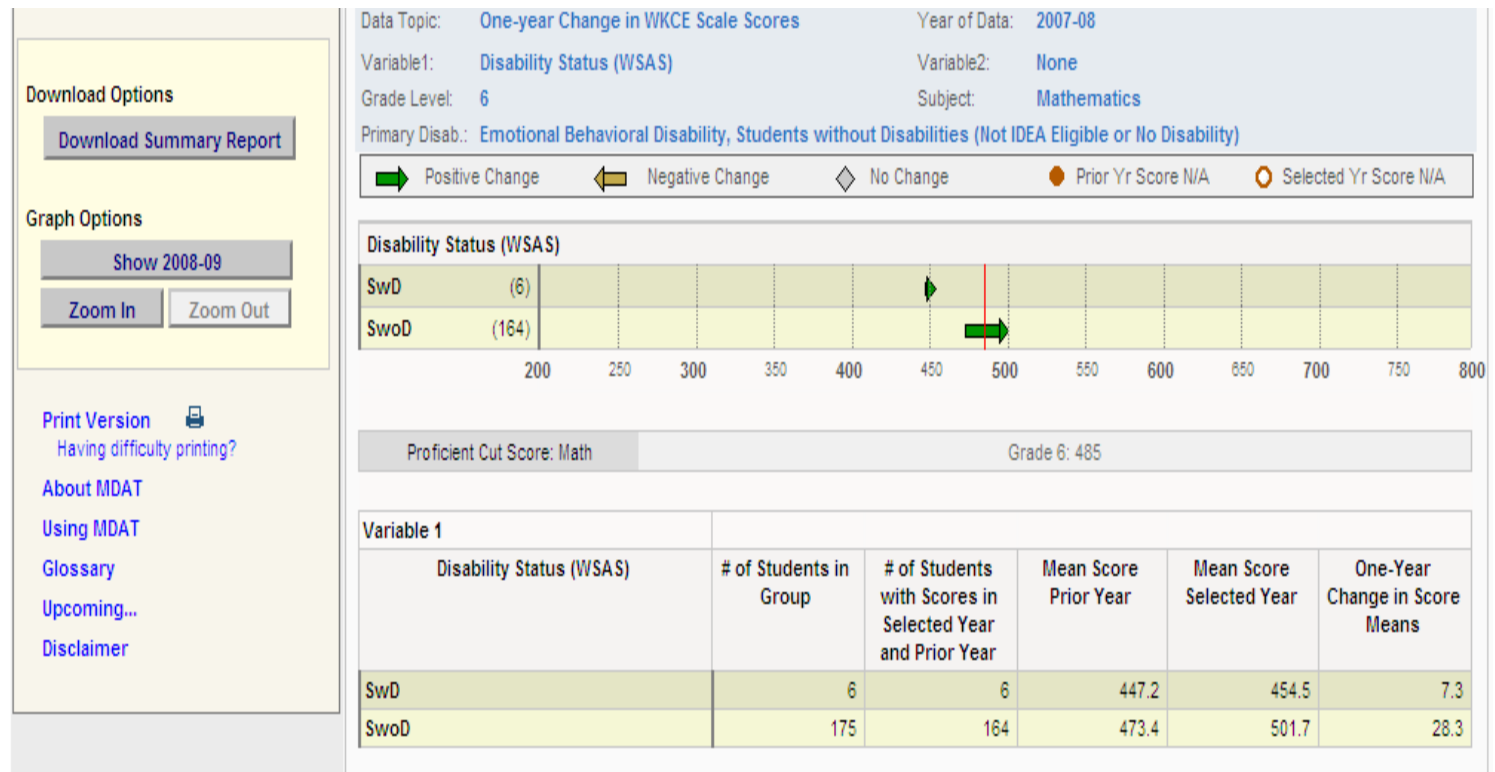
**clear** RACE/ETHNICITY (WSAS)

☐ Asian/Pacific Islander

☐ Black Not Hispanic

☐ Hispanic

# MDAT Guide: Refined Results Screen



How have the results changed with our refined question?





# MDAT Guide: Additional Report Features

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- Download Option-Available for Tier 1
- Graph Options
  - Swap years
  - Zoom IN: Expands graph for easier viewing
  - Zoom OUT: Condenses graph
- Print Option
  - Provides a report-only screen and assistance with printing

# MDAT Guide: Additional Features on Screen

Available to Tier One Users only

## Download Options

[Download Summary Report](#)

## Graph Options

[Show 2008-09](#)

[Zoom In](#)

[Zoom Out](#)

[Print Version](#) 

[Having difficulty printing?](#)

[About MDAT](#)

[Using MDAT](#)

[Glossary](#)

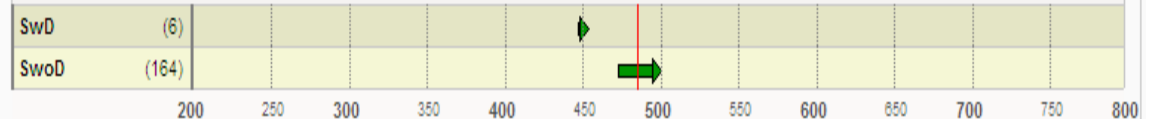
[Upcoming...](#)

[Disclaimer](#)

Data Topic: **One-year Change in WKCE Scale Scores** Year of Data: **2007-08**  
Variable1: **Disability Status (WSAS)** Variable2: **None**  
Grade Level: **6** Subject: **Mathematics**  
Primary Disab.: **Emotional Behavioral Disability, Students without Disabilities (Not IDEA Eligible or No Disability)**

 Positive Change  Negative Change  No Change  Prior Yr Score N/A  Selected Yr Score N/A

## Disability Status (WSAS)



Proficient Cut Score: Math

Grade 6: 485

## Variable 1

Disability Status (WSAS)	# of Students in Group	# of Students with Scores in Selected Year and Prior Year	Mean Score Prior Year	Mean Score Selected Year	One-Year Change in Score Means
SwD	6	6	447.2	454.5	7.3
SwoD	175	164	473.4	501.7	28.3

To switch the report interval

Printing



# For MDAT Tier One Users: Downloading Data

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- You have been identified as having a legitimate educational need to view confidential student data.
- You will be able to download MDAT aggregated or student level data for
  - Custom analysis and reporting purposes
  - Linking to local data not collected by DPI
    - Examples: classroom progress monitoring or intervention planning and evaluation



# For MDAT Tier One Users: Downloading Data

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- Select “Download Summary Report” from the left side of the screen.
- Open the document
- Note: some web browsers may have a pop-up blocker. If so, you will need to allow for the download, and RE-SELECT “Download Summary Report”
- For more assistance with downloads
  - [MDAT FAQs](#)

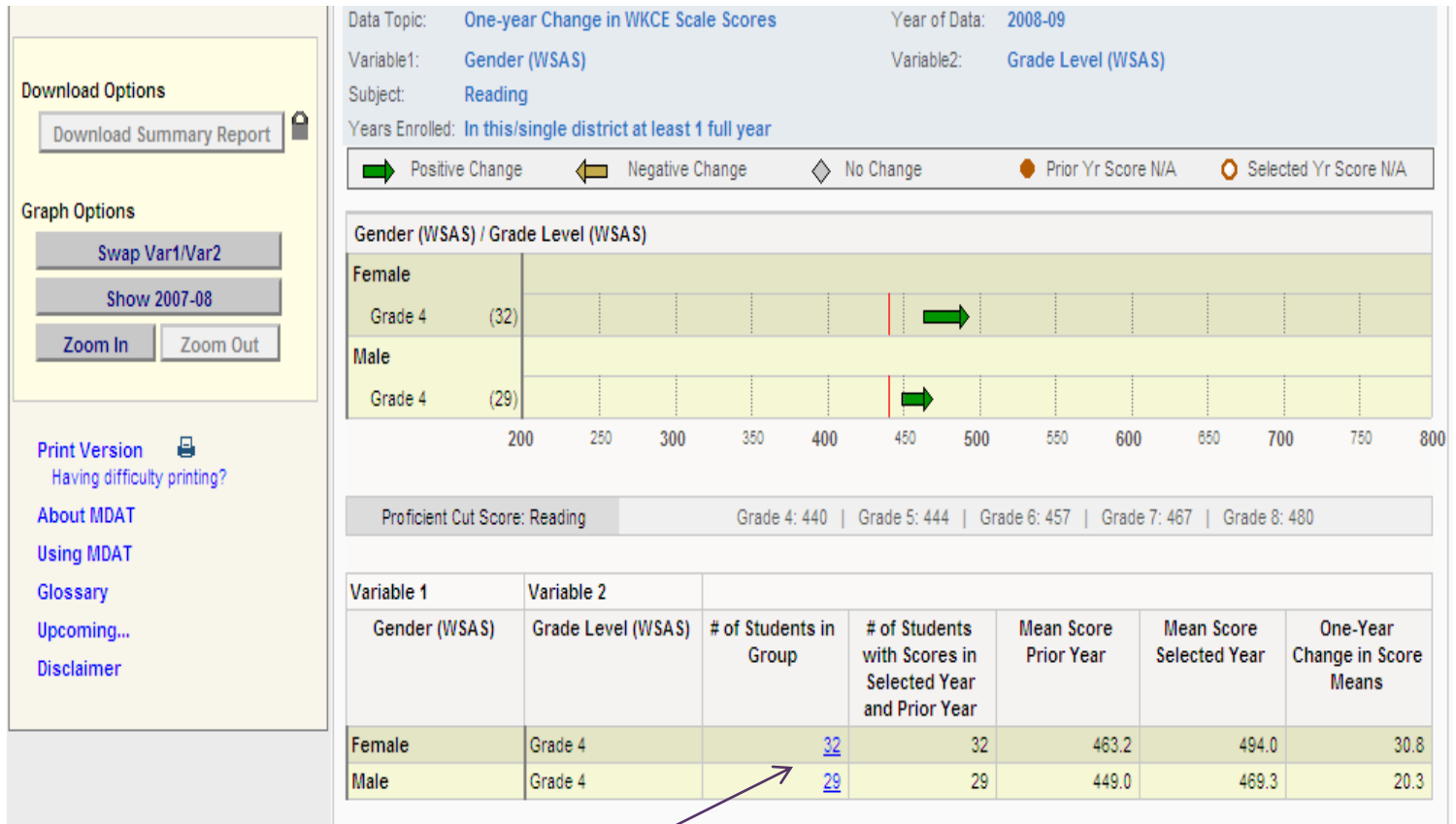


# For MDAT Tiers 1-3: Accessing Student-Level Data

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- Use the table below the graph to access student-level data
- Select the highlighted (blue) number under Number of Students in Group.
- This will access data that includes information for each student in the group
  - Scale scores for each year
  - The change in scores
  - Standard error of measurement
  - Proficiency category
- Remember--this is HIGHLY SENSITIVE information and should be seen ONLY by authorized personnel.

# For MDAT Tiers 1-3: Accessing Student-Level Data



Selecting these will produce a new page with student detail information

# For MDAT Tiers 1-3: Screen with Student Information

Using MDAT	Data Topic: One-year Change in WKCE Scale Scores	Year of Data: 2008-09
Glossary	Variable1: Gender (WSAS)	Variable2: Grade Level (WSAS)
Upcoming...	Subject: Reading	
Disclaimer	Years Enrolled: In this single district at least 1 full year	

32 students found.

Last Name	First Name	Birth Date	Gender (WSAS)	Grade Level (WSAS)	Score Prior Year	Score Selected Year	One-Year Change in Score	Std Err of Score for Selected Year	Prof Category Prior Year	Prof Category Selected Year
Student names and birth dates are listed here.			Female	Grade 4	424	459	35	9	Basic	Prof
			Female	Grade 4	471	523	52	13	Adv	Adv
			Female	Grade 4	391	385	-6	22	Min	Min
			Female	Grade 4	445	493	48	10	Prof	Adv
			Female	Grade 4	446	475	29	9	Prof	Prof
			Female	Grade 4	446	475	29	9	Prof	Prof
			Female	Grade 4	423	417	-6	11	Basic	Basic
			Female	Grade 4	483	552	69	18	Adv	Adv
			Female	Grade 4	479	525	46	13	Adv	Adv
			Female	Grade 4	473	513	40	11	Adv	Adv



# Done using MDAT?

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LOG OUT and CLOSE the BROWSER!  
(Make sure you close ALL windows,  
regardless of content.)





# Additional Assistance and Resources

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- Email

- [LDShelp@dpi.wi.gov](mailto:LDShelp@dpi.wi.gov)

OR

- Visit LDS on the DPI Website:

- <http://dpi.wi.gov/lds/index.html>